

# Contribution to the Flora of Tirap Frontier Division

BY

D. B. DEB AND R. M. DUTTA  
*Botanical Survey of India, Calcutta*

[Continued from Vol. 70 (1) : 94]

## SOLANACEAE

### **Datura metel** Linn.

A shrub in flowers ; scarce. Margharita-Jairampur, Oct. 1959, Rao 19910.

### **D. suaveolens** Humb. & Bonpl. ex Willd.

A shrub with white flowers ; cultivated ; common. Wakka, July 1961, Deb 26503.

### **Lycopersicon lycopersicum** (L.) Karsten. Tomato

A herb on moist soil with deep yellow flowers. An escape of cultivation. Chenglang, March 1958, Murthy 12901.

### **Lycianthes macrodon** (Wall. ex Nees) Bitter

A herb in flowers with enlarged calyx in fruits. Forms societies as an undergrowth ; common. Raho-Wakka, July 1961, Deb 26406 ; Langsang forest, June 1961, Deb 26139 ; Pungchow, July 1961, Deb 26622.

### **L. pachypetala** (Spreng.) Bitter

A shrub with blood red fruits ; scarce. Nampong-Pangsupass, March 1958, Murthy 12992.

### **L. subtruncata** (Wall. ex Dunal) Bitter

A herb with woody base in whitish or bluish white flowers ; rare. Longsek hillock, 1500 m, June 1961, Deb 25735.

### **Pauia belladonna** Deb et Dutta

A herb with perennial base. A monotypic genus published by the authors in *Ind. For.* 91 (6) : 363. 1965. Wakka, July 1961, Deb 26422.

The genus is named in honour of the late Rev. Dr. H. Santapau, Director, Botanical Survey of India. The specific name is chosen after Indian *Belladonna* for its apparent similarity in general appearance. It contains an alkaloid and deserves thorough chemical investigation for medicinal properties.

***Solanum indicum* Linn.**

A shrub with white flowers ; scarce. Pungchow, July 1961, *Deb* 26582.

***S. kurzii* Brace ex Prain**

A shrub with white flowers ; common. The fruit is used by local people as a medicine in stomach disorder ; Nampong-Pangsupass, March 1958, *Murthy* 13001 ; Chenglang-Khela, March 1958, *Murthy* 12927, 12943 & 12944 ; Lailongsong, June 1961, *Deb* 25794 ; Margharita-Jairampur, Oct. 1959, *Rao* 19935.

CONVOLVULACEAE

***Argyreia capitata* (Vahl) Choisy**

A twiner with red fruits ; scarce. Chenglang-Khela, Oct. 1959, *Rao* 20260 ; Jairampur, Oct. 1959. *Rao* 19978 ; Khela, March 1958, *Murthy* 12985.

***A. roxburghii* Choisy**

A climber with deep chocolate coloured flowers ; rare. Kheti-Tinchha, Aug. 1958, *Panigrahi* 14617.

***Ipomoea kingii* Prain**

A climber with white flowers ; scarce. Chenglang-Khela, Oct. 1959, *Rao* 20289 ; Jairampur, Oct. 1959, *Rao* 19981 ; Pungchow-Niausa, July 1961, *Deb* 26648.

***Merremia mammosa* (Lour.) Hall. f.**

A large twiner with white flowers ; common. Margharita-Jairampur, Oct. 1959, *Rao* 19915 ; Nampong-Pangsupass, Oct. 1959, *Rao* 20166.

***Porana racemosa* Roxb.**

A twiner with white flowers ; scarce. Soha village, 1850 m., Oct. 1959, *Rao* 20353.

SCROPHULARIACEAE

***Hemiphragma heterophyllum* Wall. ex Tent.**

A herb forming societies ; common. Noglo, June 1961, *Deb* 26331.

**Scoparia dulcis** Linn.

A herb with white flowers ; very common. Jairampur, Oct. 1959, *Rao* 19977.

**Torenia cordata** (Griff.) Dutta

A small herb with pinkish violet or deep-violet flowers in pure stands in open ground ; very common. Tipang, June 1961, *Deb* 25709.

**T. vagans** Roxb.

A prostrate herb with bluish pink or violet flowers ; rare. Nampong-Pangsupass, Oct. 1959, *Rao* 20090 ; Kothong, June 1961, *Deb* 26067.

**T. violacea** (Azaola ex Blanco) Pennell

A herb with violet flowers ; common. Jangkeng village, June 1961, *Deb* 25850.

**Vandellia antipoda** (L.) Yamazaki

A small prostrate herb ; common. Namchick, 152 m, Oct. 1959, *Rao* 20180 ; Deomali, Oct. 1959, *Rao* 20314 & 20315 ; Lailongsong, 510 m, June 1961, *Deb* 25817 ; Khonsa-Laju, June 1961, *Deb* 26005.

**V. crustacea** (L.) Benth.

A prostrate herb with bright mauve flowers ; common. Jairampur, Oct. 1959, *Rao* 19969 & 20002.

**V. mollis** Benth.

An annual with white flowers ; rare. Jangkeng village, June 1961, *Deb* 25870 ; Nampong-Pangsupass, Oct. 1959, *Rao* 20084 ; Jairampur, Oct. 1959, *Rao* 19976 ; Lunwa, July 1961, *Deb* 26644.

**V. pusilla** (Willd.) Yamazaki

A diffused herb with green flowers ; rare. Longhoi-Rusa, Sept. 1958, *Panigrahi* 16763.

ACANTHACEAE

**Mackaya neesiana** (Wall.) Das

An undershrub with lilac red flowers ; rare. Laju hills, 1575 m, Aug. 1958, *Panigrahi*, 14647.

**Phlogocanthus tubeflorus** Nees

A shrub with pink or blood red flowers ; common. Chennhang, June 1961, *Deb* s.n.

***Strobilanthes coloratus* (Nees) T. Ander.**

An undershrub with pink flowers; common. Nampong-Pangsupass, 300-1100 m, Oct. 1959, *Rao*, 20160; Banfera, July 1961, *Deb* 26703.

***S. glabratus* Nees**

A shrub with violet flowers; common. Uptil now this is known to occur in Khasia and Jaintia hills only. The present record extends its distributions to NEFA. Jangkeng village, June 1961; *Deb* 25853.

***S. echinata* Wall. ex Nees**

A shrub with deep violet flowers; scarce. Raho-Vokanoska, Aug. 1958, *Panigrahi* 16836.

***S. helictus* R. Ander.**

An undershrub with yellow flowers; scarce. Raho-Vokanoska, Aug. 1958, *Panigrahi* 16838.

***S. pentstemonoides* (Nees) T. Ander.**

An undershrub with white flowers; scarce. Jadia-Banfera, July 1961, *Deb* 26669.

***Thunbergia coccinea* Wall.**

A climber with red flowers; scarce. Nampong-Pangsupass, Oct. 1959, *Rao* 20156; Chenglang, 600 m, March 1958, *Murthy* 12931; Chennhang, June 1961, *Deb* 26216.

***T. grandiflora* (Roxb. ex Rottl.) Roxb.**

A large climber with bluish white flowers; common. Deomali, 116m, Oct. 1959, *Rao* 20307; Deomali, June 1961, *Deb* 25896.

## GESNERIACEAE

***Aeschynanthus bracteata* Wall. ex DC.**

An epiphyte with blood red flowers; rare. Noglo, June 1961, *Deb* 26346.

***A. gracilis* Parish ex C. B. Clarke**

An epiphyte with fruits on *Litsea monopetala* Pers.; scarce. Longsek hillock, 1500 m., June 1961, *Deb* 25751.

***A. parasiticus* (Roxb.) Wall.**

*A. grandiflorus* (D. Don) Spreng.

An epiphyte with flowers, scattered. Chennhang, June 1961, *Deb* 26217; Kothong, June 1961, *Deb* 26028.

**A. hookeri** C. B. Clarke

An epiphyte with red flowers ; scattered. Chegum-Wakka, July 1961, *Deb* 26482 ; Chennhang, June 1961, *Deb* 26266 ; Pungchow-Niausa, July 1961, *Deb* 26647.

**A. maculatus** Lindl.

An epiphyte with red flowers ; common. Rusa-Bimalpur, Oct. 1958, *Panigrahi* 16921 ; Namchick, Oct. 1959, *Rao* 20169.

**A. maculatus** Lindl. var. *stenophylla* C. B. Clarke

An epiphyte with small red flowers ; rare. Chennhang, June 1961, *Deb* 26181.

**A. masoniae** Kurz

A creeper on rocks, with red flowers ; scarce. Nampong-Pangsupass, Oct. 1959, *Rao* 20157.

**A. philippinensis** C. B. Clarke

An epiphyte with solitary, blood red flower with long peduncle ; scattered. Raho-Wakka, July 1961, *Deb* 26424.

**A. superba** C. B. Clarke

An epiphyte with flowers with pinkish, brown or deep red streaks ; scarce. Khela-Khonsa, Aug. 1958, *Panigrahi* 14481 ; Chenglang-Khela, Oct. 1959, *Rao* 20270.

**Boeica filiformis** C. B. Clarke

A herb in moist situations in the ground floor of the forest ; flowers small, pink ; scarce. Nampong-Pangsupass, Oct. 1959, *Rao* 20022 ; Jadia, July 1961, *Deb* 26681 ; Lailongsong, 510 m, June 1961, *Deb* 25825.

**Boea multiflora** R. Br.

A herb in fruits. In moist places. Lailongsong ; 510 m, June 1961, *Deb* 25828.

**Chirita oblongifolia** (Roxb.) Sinclair

*C. acuminata* R. Br.

A succulent herb with yellowish white flowers ; scarce. Nampong-Pangsupass, Oct. 1959, *Rao* 20020.

**C. hookeri** C. B. Clarke

A herb with yellowish white flowers with grey lines inside the corolla ; common. Nampong-Pangsupass, Oct. 1959, *Rao* 20079.

**C. macrophylla** Wall. var. **macrophylla**

A succulent herb with violet flowers ; common. Jangkeng village, June 1961, *Deb* 25849 ; Raho-Wakka, July 1961, *Deb* 26449.

**C. macrophylla** Wall. var. **tirapensis** (Panigr.) Deb et Dutta

Comb. & Stat. nov.

Basionym : *Chirita macrophylla* Wall. subsp. *tirapensis* Panigr. in *Bull. Bot. Soc. Bengal* 21(1) : 32, 1967.

A herb with bluish purple or violet tinged flowers. This is reduced here to a variety as it does not deserve a higher taxonomic position on the basis of taxonomic differences, from the type variety. Most of the differences enumerated by the author (l.c.) are of no taxonomic significance. Glabrous stem and lesser lobation of the calyx only appear to stand as the difference. Being the only flowering material available for describing the new taxon, *Deb* 26312 treated as paratype should have been treated as the holotype in place of *Panigrahi* 14795 which does not have any flower.

**C. polyneura** Miq. var. **thomsonii** C. B. Clarke

A herb with violet tinged flowers. Khonsa-Laju, June 1961, *Deb* 25979.

**C. pumila** D. Don

A herb with violet flowers ; rare. Nampong-Pangsupass, Oct. 1959, *Rao* 20071 ; Chenglang-Khela, Oct. 1959, *Rao* 20262 ; Chennhang, June 1961, *Deb* 26179.

**C. urticaefolia** Buch.-Ham. ex D. Don

A tall herb with yellow flowers ; common. Namchick-Chenglang, Oct. 1959, *Rao* 20212.

**Loxostigma griffithii** (Wight) C. B. Clarke

A herb with violet flowers. Noglo-Laju, June 1961, *Deb* 26375.

**Didymocarpus punduanus** Wall. ex DC.

A herb about 30 cm in height in white flowers ; scarce. Jangkeng village, June 1961, *Deb* 25851, Kanubari, July 1961, *Deb* 26760.

**Lysionotus serrata** D. Don

An epiphytic shrub in violet-pink or bluish-pink flowers ; common. Raho, July 1961, *Deb* 26384 ; Longsek hillock, 1500 m, June 1961, *Deb* 25738 & 25750 ; Wakka, July 1961, *Deb* 26542 ; Jadua, July 1961, *Deb* 26659 ; Chennhang, June 1961, *Deb* 26276.

**L. turnifolia** DC.

A shrub in pinkish white flowers ; common. Khonsa-Kheti, Aug. 1958, *Panigrahi* 14515 ; Chegum-Wakka. July 1961, *Deb* 26492.

**Rhynchoechum ellipticum** (Wall. ex Dietr.) A. DC.

An undershrub in small reddish or pink red flowers. Forms undergrowth in the forest ; common. Jairampur, Oct. 1959, *Rao* 20001 ; Nampong-Pangsupass, Oct. 1959, *Rao* 20023 ; Pungchow, July 1961, *Deb* 26572.

OROBANCHACEAE

**Aeginetia indica** Linn.

A light pinkish coloured root parasite with whitish violet flowers, with long pedicel ; scarce. Chenglang-Khela, Oct. 1959, *Rao* 20287 ; Soha village, Oct. 1959, *Rao* 20368.

GERANIACEAE

**Geranium nepalense** Sw.

A diffused herb, with long peduncled orange coloured flowers ; scarce. Raho, July 1961, *Deb* 26383.

BALSAMINACEAE

**Impatiens acuminata** Benth.

A small herb in violet or pinkish-red flowers, in moist places in diffused light. Namsang-Soha, Oct. 1959, *Rao* 20341 ; Khonsa-Laju, June 1961, *Deb* 26004 ; Nampong-Pangsupass, Oct. 1959, *Rao* 20080.

**I. angustiflora** Hook. f.

A herb with violet or yellow flowers. Forms societies in moist and shaded regions ; common. Raho-Wakka, July 1961, *Deb* 26409 ; Khonsa-Laju, June 1961, *Deb* 25986.

**I. assamica** Brace

A herb with violet flowers. Banfera, July 1961, *Deb* 26710.

**I. bella** Hook. f. & Thoms.

A perennial herb with whitish pink to red flowers ; scarce. Rusa-Bimalpur, Sept. 1958, *Panigrahi* 16964.

**I. drapanophora** Hook. f. & Thoms.

A herb with yellow, saccate flowers. Forms small societies; common. Noglo, June 1961, *Deb* 26337.

**I. hypoleuca** Hook. f.

A small prostrate herb with pink flowers with recurved spur; common. Khonsa-Laju, June 1961, *Deb* 25950; Tipang, June 1961, *Deb* 25707; Khonsa, June 1961, *Deb* 25920; Jangkeng village, June 1961, *Deb* 25848.

**I. latiflora** Hook. f. & Thoms.

A much branched succulent herb with red flowers with long curved spur; in moist situation, very common. Chenglang-Khela, Oct. 1959, *Rao* 20286; Jangkeng village, June 1961, *Deb* 25847; Nampong-Pangsupass, Oct. 1959, *Rao* 20076 & 20077.

**I. lutea** Hook. f. & Thoms.

A herb with yellow flowers with a large conical sac; common. Chennhang, June 1961, *Deb* 26260; Chegum-Wakka, July 1961, *Deb* 26471 & 26472.

**I. marianai** Roxb.

A herb in flower; scarce. Raho-Wakka, July 1961, *Deb* 26417.

**I. porrecta** Wall.

A small herb with mauve or violet tinged flowers; common. Noglo, June 1961, *Deb* 26313; Nampong-Pangsupass, Oct. 1959, *Rao* 20078 & 20089.

**I. tripetala** Roxb. ex DC.

A soft herb with pink flowers; in moist and shaded regions forms societies; common. Jairampur, Oct. 1959, *Rao* 20002; Deomali, Oct. 1959, *Rao* 20389; Kothong, June 1961, *Deb* 26039 & 26096.

**I. urticifolia** Wall.

A herb with swollen nodes; scarce. Langsang forest, June 1961, *Deb* 26135.

## BORAGINACEAE

**Cynoglossum wallichii** G. Don

An undershrub, hairy all over, with bluish flowers; scarce. Khonsa-Laju, June 1961, *Deb* 25984; Kothong, June 1961, *Deb* 26024 & 26066; Langsang forest, June 1961, *Deb* 26137; Noglo, June 1961, *Deb* 26304.



**Tournefortia candollii** C. B. Clarke

A rambling shrub with yellow flowers. Raho-Wakka, July 1961, *Deb* 26392.

**T. viridiflora** Wall.

A scandent shrub with creamy white fruits; scarce. Nampong-Pangsupass, Oct. 1959, *Rao* 20042; Niauxa, July 1961, *Deb* 26557.

**T. viridilora** Wall. var. **griffithii** C. B. Clarke

A scandent shrub in fruit, rare. Lailongsong, 510 m, June 1961, *Deb* 25787.

LABIATAE

**Ajuga bracteosa** Wall. ex Benth.

A herb with white flowers; rare. Noglo, June 1961, *Deb* 26356.

**Calamintha gracilis** Benth.

A herb, common. Jangkeng village, June 1961, *Deb* 26863.

**Clinopodium umbrosum** (M.-B.) C. Koch

*Calamintha umbrosa* (M.-Bieb.) Fisch. & May

An aromatic annual herb with pinkish white flowers; common. Kothong, June 1961, *Deb* 26071; Khonsa-Laju, June 1961, *Deb* 25981.

**Dysophylla auricularia** Bl.

A branching herb with white or pinkish flowers; scarce. Margharita-Jairampur, Oct. 1959, *Rao* 19932; Banfera, July 1961, *Deb* 26698; Niauxa, July 1961, *Deb* 26565.

**Elsholtzia blanda** Benth.

A much branched shrub with small, white flowers; scarce. Noglo-Laju, June 1961, *Deb* 26366; Wakka, July 1961, *Deb* 26522; Khonsa, June 1961, *Deb* 25923.

**Gomphostemma mastersii** Benth. ex Hook. f.

A perennial herb with yellow flowers and with nodulose root, common. Deomali, June 1961, *Deb* 25885.

**G. parviflorum** Wall. ex Benth.

An undershrub with yellow flowers; scarce. Pungchow, July 1961, *Deb* 26625; Margharita-Jairampur, Oct. 1959, *Rao*, 19951; Jadua-Banfera, July 1961, *Deb* 26663.

**Leucas lavandulaefolia** Rees

A small herb with white flowers ; scarce. Chenglang-Margharita & Nampong, March 1958, *Murthy* 12990.

**Melissa axillaris** (Benth.) Bakh. f.**Melissa parviflora** Benth.

A diffused undershrub with white flowers and mostly in marshy places, common. Khonsa-Kheti, Aug. 1958, *Panigrahi* 14528 ; Langsang forest, June 1961, *Deb* 26115 ; Chegum-Wakka, July 1961, *Deb* 26466.

**Mosla dianthera** (Buch.-Ham.) Maxim.

A small herb with white flowers ; common. Margharita-Jairampur, Oct. 1959, *Rao* 19936 ; Nampong-Pangsupass, Oct. 1959, *Rao* 20083 ; Niauxa, July 1961, *Deb* 26563.

**Nothochaete hamosa** Benth.

A herb with pinkish white flowers ; common. Kothong, June 1961, *Deb* 26043 ; Khonsa-Laju, June 1961, *Deb* 25954 & 26003.

**Ocimum sanctum** Linn.

A small aromatic shrub ; scarce. Chenglang-Margharita-Nampong, March 1958, *Murthy* 12991.

**Paraphlomis rugosa** Prain

A shrub with white flowers ; common. Chegum-Wakka, July 1961, *Deb* 26464.

**Perilla frutescens** (Linn.) Britt.

A herb. This species is cultivated along with paddy for seeds from which oil is extracted. Soha village, Oct. 1959, *Rao* 20352.

**Plectranthus griffithii** Hook. f.

A herb about 1 m in height with pinkish flowers ; scarce. Nampong-Pangsupass, Oct. 1959, *Rao* 20070.

**Salvia japonica** Thunb. var. **parvifolia** Hamst.

A herb with pinkish red flowers ; scarce. Margharita-Jairampur, Oct. 1959, *Rao* 19909.

**Teucrium viscidum** Bl.

An annual, in fruit ; common. Jangkeng village, June 1961, *Deb* 25862.

## MONOCOTYLEDONS

### HYDROCHARITACEAE

#### **Ottelia alismoides** (Linn.) Pers.

A hydrophyte with white flowers and ridged fruits; common. Namchick-Chenglang, Oct. 1959, *Rao* 20222 & 20223.

### COMMELINACEAE

#### **Aclisia umbellata** (Clarke) Brückner

A herb, in fruit. Fruits on maturity turn deep blue; common. Chenglang-Khela, Aug. 1958, *Panigrahi* 14427; Chenglang, Oct. 1959, *Rao* 20253; Deomali, Oct. 1959, *Rao* 20321.

#### **Aneilema scaberrimum** (Bl.) Kunth

A slender herb with small bluish flowers; scarce. Jairampur, Oct. 1959, *Rao* 19998.

#### **A. thomsoni** C. B. Clarke

A herb with pink flowers; very common. Langsang forest, June 1961, *Deb* 26161.

#### **Commelina paludosa** Bl.

A perennial herb with blue or bluish white flowers; common. Jairampur, Oct. 1959, *Rao* 19999; Nampong-Pangsupass, Oct. 1959, *Rao* 20144; Longsek hillock, 1500 m, June 1961, *Deb* 25753.

#### **C. maculata** Edgew.

A herb with blue flowers. Chennhang, June 1961, *Deb* 26204.

#### **C. sikkimensis** C. B. Clarke

A herb with small, bluish white or deep blue flowers; scarce. Nampong-Pangsupass, Oct. 1959, *Rao* 20073.

#### **Floscopa scandens** Lour.

A trailing herb among herbaceous bushes with bluish white or pinkish flowers; mostly in wet places; common. Margharita-Jairampur, Oct. 1959, *Rao* 19953; Nampong-Pangsupass, Oct. 1959, *Rao*, 20032 & 20143; Chenglang-Khela, Oct. 1959, *Rao* 20272.

#### **Forrestia mollissima** (Bl.) Koorder. var. **hispida** (Less. et A. Rich.) Baker

A herb with violet flowers and fruits; common. Chenglang, Oct. 1959, *Rao* 20229; Nampong-Pangsupass, Oct. 1959, *Rao* 20145;

Niausa, July 1961, *Deb* 26558; Longsek hillock, 1500 m, June 1961, *Deb* 25754.

**Murdannia nudiflora** (Linn.) Brenan

A small prostrate herb with small, bluish white flowers and fruits; common. Chenglang, Oct. 1959, *Rao* 20255; Jairampur, Oct. 1959, *Rao* 19980; Nampong-Pangsupass, Oct. 1959, *Rao* 20081.

**M. lariformis** (Hassk.) Rolla Rao et Kammathy

A prostrate herb with violet flowers on humus cover; scarce. Lailongsong, 510 m, June 1961, *Deb* 25836, Jairampur, Oct. 1959, *Rao* 19972.

**Pollia hasskerlii** Rolla Rao

*Pollia aclisia* Hassk.

A scandent herb with purplish white flowers and blue-black fruits in the shade of the forest; common. Nampong-Pangsupass, Oct. 1959, *Rao* 20143A.; Kothong, June 1961, *Deb* 26092; Longsek hillock, 1500 m, June 1961, *Deb* 25752; Pungchow, July 1961, *Deb* 26591.

**P. sorzagonensis** Endl.

A herb with white flowers; rare. Banfera-Kanubari, July 1961, *Deb* 26750.

**Streptolirion volubile** Edgew.

A climber with pinkish, pale creamy or yellowish white flowers subtended by a leafy bract at the base; scarce. Kothong, June 1961, *Deb* 26086; Khonsa-Laju, June 1961, *Deb* 25974.

MUSACEAE

**Musa bulbisiana** Colla.

A succulent herb with greyish green seeded fruits; edible. Rusa-Bimalpur, Sept. 1958, *Panigrahi* 17020.

**M. rubra** Wall. ex Baker

A wild annual herb; scarce. Lailongsong, 510 m, June 1961, *Deb* 25838; *Deb* s.n.

**M. sanguinea** Hook. f.

An wild banana with small, thin, pale yellowish green fruits, common. Chenglang-Khela, March 1958, *Murthy* 12947, 12948 & 12949.

**M. velutina** Wendl. & Drude.

An wild plantain with rosy red or pink fruits ; common. Nampong-Pangsupass, Oct. 1959, *Rao* 20164 ; Namchick-Chenglang, Oct. 1959, *Rao* 20221 ; Deomali, Oct. 1959, *Rao* 20328 ; Rusa-Bimalpur, Sept. 1958, *Panigrahi* 17055 ; Deomali, June 1961, *Deb* 25902 & 25903.

ZINGIBERACEAE

**Alpinia allughas** Rosc.

A perennial herb with whitish pink or pinkish red flowers ; common. Forms societies in swampy area. Jadua-Banfera, July 1961, *Deb* 26689.

**A. malaccensis** (Burm. f.) Rosc.

A stout herb with dull yellowish or very pale brownish flowers and globose fruits ; scarce. Nampong-Pangsupass, March 1958, *Murthy* 13007 ; Raho-Wakka, July 1961, *Deb* 26443.

**Amomum aromaticum** Roxb.

A rhizomatous herb in fruit. Cultivated. Khela, June 1961, *Deb* 25939.

**A. dealbatum** Roxb.

A herb with yellowish white flowers ; rare. Banfera, July 1961, *Deb* 26711.

**A. linguiforme** (Roxb.) Benth.

A rhizomatous herb in fruits only ; scarce. Longsek hillock, 1500 m, June 1961, *Deb* 25758.

**Cautleya gracilis** (Smith) Dandy

An epiphyte with yellow flowers ; rare. Noglo, June 1961, *Deb* 26358.

**Costus speciosus** (Koen.) Smith

A herb with white flowered spadix ; rare. Pungchow, July 1961, *Deb* 26577.

**C. speciosus** (Koen.) Smith var. **argyrophylus** Wall. ex Baker

A perennial herb with white flowered spadix ; scarce. Namchick, Oct. 1959, *Rao* 20182 ; Pungchow, July 1961, *Deb* 26577.

**Globba multiflora** Wall. ex Baker

A perennial herb with orange yellow flower and fruits ; scarce. Chenglang, Aug. 1958, *Panigrahi* 14473 ; Jangkeng village, June 1961, *Deb* 25872.

**G. orixensis** Roxb.

A perennial herb with yellowish or orange red flower ; scarce. Raho-Wakka, July 1961, *Deb* 26444.

**Hedychium cernuum** Wight

A herb in fruit and with perennial rhizome ; scarce. *Deb* s.n.

**H. coccinium** Buch.-Ham. ex Smith

A herb. Deomali, June 1961, *Deb* 25904.

**H. coccinium** Buch.-Ham. ex Smith var. **angustifolium** Roxb.

A herb with blood red flowers ; rare. Wakka, Sept. 1958, *Panigrahi* 16902.

**H. coccinium** Buch.-Ham. ex Smith var. **longifolium** (Rosc.) Baker

A tall herb with red flowers ; scarce. Jadua, July 1961, *Deb* 26655.

**H. coronarium** Koenig

A herb in swamp and marshy area. Flowers white ; perianth sweet scented ; scarce. Chenglang-Khela, Oct. 1959, *Rao* 20288 ; Deomali, Oct. 1959, *Rao* 20390.

**H. marginatum** Clarke

A herb with sweet scented flowers ; rare. Jadua-Banfera, July 1961, *Deb* 26688.

**H. stenopetalum** Lodd.

A perennial herb with sweet scented white flowers ; scarce. Laju hills, Aug. 1958, *Panigrahi* 14691 ; Lailongsong, 510 m, June 1961, *Deb* 25832 ; Wakka-Nagminu, July 1961, *Deb* 26548.

**H. villosum** Wall.

A herb with light brown flowers. Mostly on moist slopes and rocky crevices ; scarce. Chenglang-Khela, March 1958, *Murthy* 12939 ; Wakka-Nagminu, July 1961, *Deb* 26547.

**Hitchenia careyana** (Wall.) Benth.

A tall herb with slightly pinkish white flowers ; scarce. Jairampur, Oct. 1959, *Rao* 20004.

## CANNACEAE

**Canna flaccida** Salisb.

An ornamental plant with rosy red flowers ; cultivated. Chenglang-Khela, Oct. 1959, *Rao* 20284.

MARANTACEAE

**Phrynium placentarium** (Lour.) Merr.

A perennial herb in inflorescence; forming large societies; common. Lailongsong, 510 m, June 1961, *Deb* 25837; Longsek hillock, 1500 m, June 1961, *Deb* 25759.

LILIACEA

**Asparagus filicinus** Buch.-Ham. ex D. Don

A climber in open areas of the forest; scarce. Chennhang, June 1961, *Deb* 26283 & 26288.

**Dianella ensifolia** Redoute

A perennial herb with small, bluish-white flowers and pale green fruits; rare; mostly on moist slopes. Nampong-Pangsupass, Oct. 1959, *Rao* 20110.

**Disporum cantoniense** (Lour.) Merr.

*Disporum pullum* Salisb.

A herb in flowers and fruits; fairly abundant. Langsang forest, June 1961, *Deb* 26159; Raho-Wakka, July 1961, *Deb* 26456.

**Ophiopogon intermedius** D. Don

A herb with white flowers: common. Chennhang, June 1961, *Deb* 26284.

**O. wallichianus** (Kunth) Hook. f.

A perennial herb with white flowers; forms societies; very common. Chennhang, June 1961, *Deb* 26285, 26286 & 26287.

**Polygonatum brevistylum** Baker

An epiphyte in flowers and fruits. Noglo, June 1961, *Deb* 26357.

This is of restricted distribution in Sikkim, Abor Hills, Nagaland and Tirap.

**Polygonatum oppositifolium** (Wall.) Royle

An epiphyte in flowers and fruits. Pungchow, July 1961, *Deb* 26633.

**Smilacina fusca** Wall.

A herb in fruits; forms an undergrowth; common. Chennhang, June 1961, *Deb* 26289.

## TRILLIACEAE

**Paris polyphylla** Smith

A small herb in flowers and fruits ; as an undergrowth in the evergreen forest ; scarce. Langsang forest, June 1961, *Deb* 26162 ; Wakka, July 1961, *Deb* 26526 ; Chegum-Wakka, July 1961, *Deb* 26462.

## SMILACACEAE

**Smilax lanceifolia** Roxb.

A climber ; in flower ; scarce. Chegum-Wakka, July 1961, *Deb* 26489.

**S. perfoliata** Lour.

A climber ; in flower and fruit. Jairampur, Oct. 1959, *Rao* 19988.

**S. zeylanica** L.

A climber. Kothong, June 1961, *Deb* 26087

**S. orthoptera** A. DC.**S. roxburghiana** Wall. ex Hook. f.

A spiny climber ; in fruit ; scarce. Chenglang, March 1958, *Murthy* 12909 ; Chennhang, June 1961, *Deb* 26228 ; Langsang forest, June 1961, *Deb* 26156.

## ARACEAE

**Alocasia fornicata** (Roxb.) Schott.

A herb. Wakka-Nagminu, July 1961, *Deb* 26546.

**A. indica** (Roxb.) Schott.

A tall herb in fleshy, golden yellow spathe ; scarce. Banfera-Kanubari, July 1961, *Deb* 26751 ; Chennhang, June 1961, *Deb* 26229.

**Amorphophallus bulbifera** (Roxb.) Bl.

A herb in red fruits. Khonsa-Laju, June 1961, *Deb* 26011.

**Arisaema consanguineum** Schott.

A succulent herb with palmate and digitate leaves ; scarce. Langsang forest, June 1961, *Deb* 26160 ; Chegum-Wakka, July 1961, *Deb* 26496.

**Colocasia affinis** Schott.

It is an extensively cultivated herb. Soha village, Oct. 1959, *Rao* 20357 ; Jangkeng village, June 1961, *Deb* 25874 ; Longsek hillock, June 1961, *Deb* 25760.



**C. esculenta** (L.) Schott.

A herb with large yellowish spathe ; scarce. Tipang, June 1961, *Deb* 25712.

**Homalomena aromatica** Schott.

A herb with perennial root stock ; forms the ground cover ; scarce. Banfera-Kanubari, July 1961, *Deb* 26752.

**Pothos cathcarti** Schott.

A branched climber ; in fruit ; common. Crushed leaves without juice is commonly used as a bandage for sprain and bone fractures by the Thangsias as a medicinal plant. Chenglang-Khela, March 1958, *Murthy* 12936 ; Kothong, June 1961, *Deb* 26093 ; Khonsa-Laju, June, 1961, *Deb* 26009.

**P. scandens** Linn.

An epiphytic herb ; in fruit ; common. Chenglang-Khela, March, 1958, *Murthy* 12936A ; Chennhang, June 1961, *Deb* 26290 ; Way to Niauxa, July, 1961, *Deb* 26560.

**Rhaphidophora decursiva** (Roxb.) Schott.

A large epiphytic climber ; in fruit ; common. Kothong, June 1961, *Deb* 26088 ; Raho-Wakka, July 1961, *Deb* 26445.

**R. glauca** (Wall.) Schott.

A small herb on dry mossy rocks. Pangsupass, March 1958, *Murthy* 13011.

**R. hookeri** Schott.

An epiphyte, very common. Pungchow-Niauxa, July 1961, *Deb* 26652 ; Chennhang, June 1961, *Deb* 26282.

AMARYLLIDACEAE

**Crinum pratense** Herb.

A herb with white flowers and underground bulb. Cultivated mostly in plains. Soha village, Oct. 1959, *Rao* 20371 ; Pungchow, July 1961, *Deb* 26581.

ROXBURGHIACEAE

**Stemone tuberosa** Lour.

A twiner : in fruit ; scarce. Lailongsong, 510 m, June 1961, *Deb* 25839.

## DIOSCOREACEAE

**Dioscorea anguina** Roxb.

A twiner with creamy white flowers ; common. Deomali, Oct. 1959, *Rao* 20319 ; Nampong-Soha, Oct. 1959, *Rao* 20348.

**D. bulbifera** Linn.

A large twiner with small white flowers ; scarce. Chenglang-Khela, Oct. 1959, *Rao* 20302 ; Jairampur, Oct. 1959, *Rao* 19974 ; Kothong, June 1961, *Deb* 26091 ; Chennhang, June 1961, *Deb* 26199 ; Pungchow-Niausa, July 1961, *Deb* 26650.

**D. glabra** Roxb.

A climber in flowers ; bulbils dark brown ; scarce. Margharita-Jairampur, Oct. 1959, *Rao* 19927 ; Chenglang, Oct. 1959, *Rao* 20251.

**D. hamiltoni** Hook. f.

A twiner with small yellow flowers ; rare. Jairampur, Oct. 1959, *Rao* 19983.

**D. laurifolia** Wall. ex. Hook. f.

A climber with small flowers, rare. Pungchow, July 1961, *Deb* 26589. This is a Malaysian plant recorded for India by Deb & Katak in *Bull. Bot. Surv. India* 5(2) : 163, 1963.

**D. oppositifolia** Linn.

A climber ; in fruit ; scarce. Jangkeng village, June 1961, *Deb* 25873.

**D. pentaphylla** Linn.

A climber ; in flowers and fruits ; scarce. Laju-Raho, Aug. 1958, *Panigrahi* 14721, Chenglang-Khela, Oct. 1959, *Rao* 20301 ; Soha village, Oct. 1959, *Rao* 20362.

## AGAVACEAE

**Pleomele angustifolia** (Roxb.) N.E. Brown

*Dracaena angustifolia* Roxb.

A shrub ; scarce. Pungchow, July 1961, *Deb* 26632.

**P. petiolata** (Hook. f.) N.E. Brown

*Dracaena petiolata* Hk. f.

A tall herb with dark green fruits ; rare. Deomali, Oct. 1959, *Rao* 20330.

PALMAE

**Arenga saccharifera** Labill.

A tree ; scarce. Chenglang, June 1961, *Deb* 26197.

**Calamus erectus** Roxb. var. **macrocarpa** (Griff.) Becc.

An erect palm with big bunches of brown fruits. Chenglang, Oct. 1959, *Rao* 20227.

**C. flagellum** Griff.

A straggler with prickly fruits ; prickles strong ; fruits edible ; common. Banfera-Kanubari, July 1961, *Deb* 26749 ; Margharita-Jairampur, Oct. 1959, *Rao* 19957.

**C. floribundus** Griff.

A climber ; common. Longsek hillock, 1500 m, June 1961, *Deb* 25756.

**C. gracilis** Roxb.

Cane ; prickles curved downwards ; inflorescence long pendent. Banfera, July 1961, *Deb* 26714.

**C. leptospadix** Griff.

A climber ; in fruit, growing together on slopes. Common in humid valleys. Jadua, July 1961, *Deb* 26654.

**Didymosperma nana** H. Wendle & Drude

A tree ; rare. Niausa-Wanu, Sept. 1958, *Panigrahi* 15078.

**Licuala spinosa** Wurmbe.

A tree with bluish green fruits and circular leaves, fairly common. Niausa-Wanu, Sept. 1958, *Panigrahi* 15076.

**Pinanga gracilis** Bl.

A common perennial shrub with female flowers in spike from the lower nodes ; fruits oval, green, smooth ; Namsang-Soha, Oct. 1959, *Rao* 20351A ; Banfera, July 1961, *Deb* 26715 & 26716.

**Wallichia caryotoides** Roxb.

A tree ; in fruit ; common. Chenglang, Oct. 1959, *Rao* 20228 ; Kothong, June 1961, *Deb* 26099 ; Chennhang, June 1961, *Deb* 26197.

**W. densiflora** Mart.

An evergreen shrub with red ripe fruits ; common. Namchick-Chenglang, Oct. 1959 ; *Rao* 20220 ; Banfera, July 1961, *Deb* 26717 ; Longsek hillock (Chenglang), 1500 m, June 1961, *Deb* 25757.

## HYPOXIDACEAE

**Hypoxis aurea** Lour.

A herb with yellow flowers. Chennhang, June, 1961, *Deb* 26200; Noglo-Laju, June 1961, *Deb* 26367.

## TACCACEAE

**Tacca integrifolia** Ker-Gawl.

A perennial herb with pink to chocolate brown flowers; rare. Jadia-Banfera, July 1961, *Deb* 26666.

**T. laevis** Roxb.

A perennial herb with winged fruits; fairly common. Niauxa-Wanu, Sept. 1958, *Panigrahi* 15068.

## ORCHIDACEAE

**Acampe longifolia** (Lindl.) Lindl.

*Saccolabium longifolium* (Lindl.) Hook. f.

A large epiphyte in young fruits and greenish pink flower buds; scarce. Namchick-Changlang, Oct. 1959, *Rao* 20219.

**Agrostophyllum khasianum** Griff.

An epiphytic on trees; pseudo-bulb 15 cm long, flower white, sessile. Deomali, Oct. 1959, *Rao* 20329; Banfera, July 1961, *Deb* 26718.

**Arachnis flos-aeris** (L.) Reichb. f.

An epiphyte; in fruit; rare. Namchick, Oct. 1959, *Rao* 20208.

**Arundina graminifolia** (D. Don) Hochreutiner

Terrestrial among the grasses on the hill slopes with bright mauve or lilac red flowers, labellum white with reddish tinge. Nampong-Pangsupass, Oct. 1959, *Rao* 20074, 20075; Margharita-Jairampur, Oct. 1959, *Rao* 19958.

**Bulbophyllum confertum** Hook. f.

A lithophyte. Grows in clusters on rocks with small pseudo-bulb and a single leaf; scarce. Nampong-Pangsupass, Oct. 1959, *Rao* 20137.

**B. reptans** Lindl.

An epiphyte; pseudo-bulb one flowered; scarce. Chennhang, June 1961, *Deb* 26301.

**B. triste** Reichb. f.

An epiphyte in light yellow flowers ; fairly common. Pungchow, July 1961, *Deb* 26635.

**Bulleyia yunnanensis** Schltr.

Grows on trunks of trees and in humus covered boulders in mixed forest at 1000-2700 m in altitude ; flowering in June-August. A native of China recorded from India by *Deb* in *Ind. For.* 91(3) : 193, 1965. Chennhang, June 1961, *Deb* 26291.

**Calanthe densiflora** Lindl.

Terrestrial among grasses on hill slopes ; rare. Nampong-Pang-supass, Oct. 1959, *Rao* 20111.

**Coelogyne fuscescens** Lindl.

Terrestrial in humid environment ; in fruit ; fairly common. Nampong-Pangsupass, Oct. 1959, *Rao* 20118.

**C. ovalis** Lindl.

A lithophyte with creamy-white flowers ; Labellum with chocolate brown ridges on the upper surface ; the rim is covered with hairy out-growth ; scarce. Nampong-Pangsupass, Oct. 1959, *Rao* 20123 ; Soha village, Oct. 1959, *Rao* 20381.

**C. prolifera** Lindl.

An epiphyte ; pseudo-bulb two-leaved. Longsek hillock, 1500 m, June 1961, *Deb* 25766.

**Cryptochilus lutea** Lindl.

An epiphyte ; in fruit ; scarce. Raho-Vokanoska, Aug. 1958, *Panigrahi* 16866.

**C. sanguinea** Wall.

An epiphyte with yellow flowers ; common. Chennhang, June 1961, *Deb* 26295.

**Cymbidium simulans** Rolfe

An epiphyte with pinkish-yellow flowers ; fairly common. Jadua-Banfera, July 1961, *Deb* 26690.

**C. devonianum** Paxt.

An epiphyte ; in fruit ; fairly common. Nampong-Pangsupass, Oct. 1959, *Rao* 20115.

**Dendrobium acinaciforme** Roxb.

An epiphyte with white flowers with brownish patch in the labellum; and long stalked fruits; rare. Niauxa-Wanu, Sept. 1958, *Panigrahi* 15100; Banfera, July 1961, *Deb* 26719.

**D. calceolaria** Carey

An epiphyte; in fruit; common. Banfera-Kanubari, July 1961, *Deb* 26753.

**D. candidum** Wall.

An epiphyte. Banfera, July 1961, *Deb* 26720.

**D. chrysanthum** Wall. ex Lindl.

An epiphyte; in fruits; rare. Khonsa, June 1961, *Deb* 25914.

**D. lituiflorum** Lindl.

An epiphyte; common. Chenglang, Oct. 1959, *Rao* 20242; Soha village, Oct. 1959, *Rao* 20370A.

**D. nobile** Lindl.

A lithophyte; not rare. Nampong-Pangsupass, Oct. 1959, *Rao* 20114.

**Ephemerantha macraei** (Lindl.) P. F. Hunt & Summerhayes

*Dendrobium macraei* Lindl.

An epiphyte; common. Nginu, Aug. 1958, *Panigrahi* 14840; Margharita-Jairampur, Oct. 1959, *Rao* 19963; Wakka-Nagminu, July 1961, *Deb* 26550.

**Eria acervata** Lindl.

A small epiphyte; in flower; common. Wakka-Nginu, July 1961, *Deb* 26551.

**E. flava** Lindl.

A lithophyte with brown fruits; rare. Nampong-Pangsupass, Oct. 1959, *Rao* 20116.

**E. paniculata** Lindl. ex Wall.

An epiphyte on *Saurauja* sp. with small whitish flowers; rare. Khonsa-Laju, June 1961, *Deb* 26013; Deomali, June 1961, *Deb* 25907.

**E. rufinula** Reichb. f.

An epiphyte or a lithophyte with small white and axillary flowers; rare. Nampong-Pangsupass, Oct. 1959, *Rao* 20131; Deomali, Oct. 1959, *Rao* 20326.

**Galeola falconeri** Hook. f.

A very delicate terrestrial orchid with small white flower buds ; not scarce. Nampong-Pangsupass, March 1958, *Murthy* 13009.

**Gastrochilus calceolaris** (Smith) D. Don

An epiphyte ; scarce. Chennhang, June 1961, *Deb* 26231 ; Langsang forest, June 1961, *Deb* 26164.

**Liparis assamica** K. & P.

An epiphyte in small yellow flowers ; scarce. Chenglang, Oct. 1959, *Rao* 20236 ; Kothong, June 1961, *Deb* 26100.

**L. caespitosa** (Thouars) Lindl.

An epiphyte in small, greenish yellow flowers and green fruits ; common. Chennhang, June 1961, *Deb* 26293.

**Malaxis wallichii** (Lindl.) Deb

A terrestrial orchid in flower. Longsek hillock, 1500 m, June 1961, *Deb* 25765.

**Oberonia emarginata** King & Prantl.

An epiphytic orchid in flower. Longsek hillock, 1500 m, June 1961, *Deb* 25767.

**O. iridifolia** (Roxb.) Lindl.

An epiphyte with inconspicuous flowers ; scarce. Kothong, June 1961, *Deb* 26097.

**O. myriantha** Lindl.

An epiphytic orchid ; scarce. Soha village, 1067 m, Oct. 1959, *Rao* 20379.

**Ophrys muscifera** Huds.

An epiphyte on mossy bark of trees with greenish-yellow flowers ; rare. Nagu, August 1958, *Panigrahi* 14851.

**Otochilus porrecta** Lindl.

An epiphyte with a very long pendulous inflorescence ; fruits pinkish ; fairly common. Soha village, 1067 m, Oct. 1959, *Rao* 20373.

**Phajus longipes** (Hook. f.) Holtt.

A ground orchid on very damp and moist slopes with lemon-yellow flowers. Nampong-Pangsupass, March 1958, *Murthy* 13005.

**Pholidota articulata** Lindl.

An orchid on dry soil or hard rocky slopes or epiphytic; in fruit; common. Nampong-Pangsupass, Oct. 1959, *Rao* 20092; Nampong-Pangsupass, March 1958, *Murthy* 13010; Khonsa-Laju, June 1961, *Deb* 26012.

**P. imbricata** (Roxb.) Lindl.

An epiphyte with pink flowers and brown bracts; not scarce. Soha village, Oct. 1959, *Rao* 20374; Margharita-Jairampur, Oct. 1959, *Rao* 19960.

**Pleione praecox** (Smith) D. Don

An epiphyte; scarce. Deomali, June 1961, *Deb* 25910.

**Podochilus cultratus** Lindl.

An epiphyte; rare. Deomali, June 1961, *Deb* 25906.

**Polystachya wightii** Reichb. f.

An epiphyte; scarce. Jadua-Banfera, July 1961, *Deb* 26692.

This has been reported from Malabar only. This record from NEFA is interesting.

**Sarcanthus filiformis** Lindl.

An epiphyte with whitish purple flowers; not rare. Pungchow-Niausa, July 1961, *Deb* 26653.

**S. subulatus** (Bl.) Reichb. f.

An epiphyte with white flowers and fruits; not scarce. Jadua-Banfera, July 1961, *Deb* 26691; Deomali, Oct. 1959, *Rao* 20327; Chennhang, June 1961, *Deb* 26292.

**Schoenorchis gemmata** (Lindl.) J. J. Smith

An epiphyte with violet flowers and white labellum; rare. Khonsa-Laju, June 1961, *Deb* 26014.

**Stauroopsis undulatus** Benth.

An epiphyte; not rare. Chenglang, Oct. 1959, *Rao* 20244.

**Thunia marshalliana** Reichb. f.

An epiphyte; in fruit; perianth persistent; common. Nagnu-Niausa, Aug. 1958, *Panigrahi* 14844.

**Uncifera acuminata** Lindl.

*Saccolabium acuminatum* (Lindl.) Hook. f.

An epiphyte; not rare. Langsang forest, June 1961, *Deb* 26165.



**U. obtusifolia** Lindl.

An epiphytic orchid ; not rare. Chenglang, Oct. 1959, *Rao* 20245.

**Vanda caerulea** Griff. ex Lindl. (Eng : *Blue Vanda*)

An epiphyte with showy light blue flowers and long, ribbed fruits ; not rare. Chenglang, Oct. 1959, *Rao* 20241.

CYPERACEAE

**Carex indica** Linn.

A perennial herb ; rare. Chenglang, Aug. 1958, *Panigrahi* 14458.

**C. insignis** Boott.

A herb ; common along foot paths. Langsang forest, June 1961, *Deb* 26163.

**C. remota** Linn.

A herb ; very common. Chegum-Wakka, July 1961, *Deb* 26498.

**C. spiculata** Boott. *var. nobilis* (Boott.) Hook. f.

A perennial herb with greenish-brown fruits. Laju-Raho, Aug. 1958, *Panigrahi* 14742.

**C. cyperoides** (Linn.) O. Kuntze *var. evolutor* C. B. Clarke

An annual in moist situation ; not rare. Noglo, June 1961, *Deb* 26302.

**Cyperus diffusus** Vahl

A herb with umbellate heads ; common. Longsek hillock, June 1961, *Deb* 25761.

**C. iria** Linn.

A perennial herb in swampy area ; common. Khonsa, June 1961, *Deb* 25924.

**C. uncinatus** Poir.

An annual herb in brown alluvial soil ; common. Longhoi-Rusa, Sept. 1958, *Panigrahi* 16765.

**Fimbristylis diphylla** (Retz.) Vahl

A herb ; common. Khonsa, June 1961, *Deb* 25925 ; Longsek hillock, 1500 m, June 1961, *Deb* 25764.

**Mariscus cyperinus** Vahl *var. bengalensis* C. B. Clarke

A perennial herb ; not rare. Kheti-Tinchha, Aug. 1968, *Panigrahi* 14576.

**Scleria cochinchinensis** (Lour) Druce

A tall herb in wet places ; common. Jairampur, Oct. 1959, *Rao* 19991.

## GRAMINEAE

**Agrostis myriantha** Hook. f.

A herb ; common. Kothong, June 1961, *Deb* 26102 ; Langsang forest, June 1961, *Deb* 26157.

**Arthraxon nudus** (Steud.) Hochst.

A scandent herb in forest clearances ; common. Nampong-Pang-supass, Oct. 1959, *Rao* 20086.

**Bambusa nutans** Wall. ex Munro

A tall climbing bamboo ; not rare. Chennhang, June 1961, *Deb* 26226.

**B. pallida** Munro

A tall bamboo about 20-30 m in height, bracts small ; not rare. Soha village, Oct. 1959, *Rao* 20364.

**Capillipedium assimile** (Steud.) A. Camus

An annual semiprostrate herb ; spikelets greyish green, crowded awned ; common. Wakka, July 1961, *Deb* 26525.

**Centotheca lappacea** (Linn.) Desv.

A grass of the way side with broad leaf ; very common. Nampong-Pangsupass, Oct. 1959, *Rao* 20052.

**Coix lacryma-jobi** Linn.

A perennial grass in swampy places and on hill slopes ; not scarce. Niausa, July 1961, *Deb* 26559.

**C. lacryma-jobi** Linn. *var. mayuen* (Romanet) Stapf

A cultivated grass. This is chiefly used for the packing of beverage. Soha village, Oct. 1959, *Rao* 20366.

**Dendrocalamus hamiltonii** Nees et Arn. ex Munro

A tall bamboo ; in flower. It is one of the commonest bamboo in Assam ; very common. Pungchow, July 1961, *Deb* 26634 ; Tipang, 540 m, June 1961, *Deb* 25714 ; Banfera-Kanubari, July 1961, *Deb* 26755.

**D. hookeri** Munro

A bamboo; bracts pinkish-brown. Shoot is not edible. Fruits are in cluster at the nodes, ash grey in colour, not rare. Kothong, June 1961, *Deb* 26089; Namsang-Soha, Oct. 1959, *Rao* 20349; Soha village, Oct. 1959, *Rao* 20365.

**Digitaria ternata** (A. Rich.) Stapf ex Dyer

It is one of the commonest way side grasses; very common. Nampong-Pangsupass, Oct. 1959, *Rao* 20085.

**Echinochloa colonum** (Linn.) Link.

A common grass. Namchick, Oct. 1959, *Rao* 20171.

**Eleusine indica** (L.) Gaertn.

A small grass in marshy places; not rare. Namchick, Oct. 1959, *Rao* 20172

**Eragrostis unioloides** (Retz.) Nees ex Steud.

A prostrate grass all along the way side with a panicle of spikelets; common. Margharita-Jairampur, Oct. 1959, *Rao* 19923; Nampong-Pangsupass, Oct. 1959, *Rao* 20068; Namchick, Oct. 1959, *Rao* 20186.

**Hordeum vulgare** Linn.

Cultivated along the moist soil slopes and rocky edges; common. Khela, March 1958, *Murthy* 12882.

**Imperata cylindrica** (Linn.) P. Beauv. *var. major* (Nees) C. E. Hubb.

A perennial herb; common. Kothong, June 1961, *Deb* 26023.

**Microstegium vagans** (Nees ex Steud.) A. Camus

A perennial herb, hairy; common. Niauxa-Wanu, Sept. 1958, *Panigrahi* 15006.

**Neyraudia reynaudiana** (Kunth) King ex Hitch.

A tall grass about 2-3 m in height; among bushes; very common. Nampong-Pangsupass, Oct. 1959, *Rao* 20162; Namsang-Soha, Oct. 1959, *Rao* 20343.

**Oplismenus compositus** (Linn.) P. Beauv.

A very common herb. Longsek hillock, 1500 m, June 1961, *Deb* 25762.

**Oryza sativa** L.

Cultivated paddy, awnless on dry hill slopes. Soha village, Oct. 1959, *Rao* 20367.

***Panicum auritum* Presl. ex Nees**

A perennial tall grass ; not rare. Namchick, Oct. 1959, *Rao* 20187.

***Panicum khasianum* Munro ex Hook. f.**

A herb. Aug. 1958, *Panigrahi* s.n.

***P. miliaceum* Linn.**

An annual herb, cultivated, grain awnless. Khonsa-Laju, June 1961, *Deb* 26008.

***P. montanum* Retz.**

A herb ; not common. Banfera-Kanubari, July 1961, *Deb* 26754.

***Paspalum conjugatum* Berg.**

A perennial creeper amidst rocks ; common. Nampong-Pangsupass, Oct. 1959, *Rao* 20046.

***P. scrobiculatum* Linn.**

A herb. Sometimes cultivated ; common. Longsek Hillock, 1500 m, June 1961, *Deb* 25763.

***Phragmites karka* (Retz.) Trin. ex Steud.**

A tall perennial grass. A dominant species from Niauxa. Lailongsong, 510 m, June 1961, *Deb* 25835 ; Jairampur, Oct. 1959, *Rao* 19996.

***Pogonatherum crinitum* (Thunb.) Kunth**

A herb on rocks of slopes. Common. Kothong, June 1961, *Deb* 26101 ; Khonsa-Laju, June 1961, *Deb* 26010.

***Pseudoechinolaena polystachya* (H.B.K.) Stapf**

A herb, very common. Pungchow, July 1961, *Deb* 26636.

***Pseudostachyum polymorphum* Munro**

A bamboo about 5-10 m in height ; common. Chenglang-Khela, Oct. 1959, *Rao* 20299.

***Saccharum arundinaceum* Retz.**

Common plant in clearances. Nampong-Pangsupass. Oct. 1959, *Rao* 20159.

***Sacciolepis indica* (Linn.) A. Chase**

A herb ; common. Lailongsong, 510 m, June 1961, *Deb* 25833.

***Setaria glauca* (Linn.) P. Beauv.**

An annual grass ; common. Kheti-Tinchha, Aug. 1958, *Panigrahi* 14577 ; Laju-Raho, Aug. 1958, *Panigrahi* 14750.

**S. italica** (Linn.) P. Beauv.

A herb ; cultivated widely for grains used in preparing beverages ; Khonsa, June 1961, *Deb* 26007.

**S. pallide-fusca** (Schum.) Stapf et C. E. Hubb.

An annual grass ; common. Nampong-Pangsupass, Oct. 1959, *Rao* 20088.

**S. palmifolia** (Koen.) Stapf

A tall perennial grass ; common. Jairampur, Oct. 1959, *Rao* 19992 ; Rusa, Sept. 1958, *Panigrahi* 16996.

**Sporobolus fertilis** (Steud.) W. D. Clayton

A grass. *Panigrahi* s.n.

**Themeda villosa** (Poir.) A. Camus

A tall grass forming mostly impenetrable thickets ; common. Margharita-Jairampur, Oct. 1959, *Rao* 19930.

**Thysanolaena maxima** (Roxb.) O. Kuntze

One of the very common long grasses in this area. Nampong, Oct. 1959, *Rao* 20163 ; Lailongsong, 510 m, June 1961, *Deb* 25834.

#### REFERENCES

- Literature consulted in connection with determination, correct nomenclature and distribution of the taxa are very numerous and are considered unnecessary to cite here. Those publications which have a direct bearing on the text of the paper are cited below.
- CHOWDHURY, A. K. (1960) : A short note on *Shorea assamica* (Makai). *Ind. For.* **86** : 205-206.
- DEB, D. B. (1965) : Plants new to India. *ibid.* **91**(3) : 193-194.
- & KATAKI, S. K. (1963) : Interesting plants from Eastern India—1. *Bull. Bot. Surv. India* **5**(2) : 163-164.
- & DUTTA, R. M. (1964) : A new species of *Boehmeria* Jacq. from North East India. *Ind. For.* **90**(11) : 782-784.
- (1965) : *Pauia* Deb et Dutta—A remarkable new genus and species from Tirap Frontier Division. *ibid.* **91**(6) : 363-366.
- (1965) : Interesting plants from Eastern India II. *Bull. Bot. Soc. Bengal* **19**(1) : 37-38.
- (1969) : An addition to Umbelliferae from North East India. *J. Sen Mem. Vol.*, pp. 421-424.
- HUTCHINSON, J. (1959) : The families of Flowering Plants. ed. 2, I-II. Oxford Univ. Press, London.
- MEHRA, P. N. (1961) : *Proc. Indian Sci. Cong. Assocn.* 48th Session, **1961**(2) : 130.
- PANIGRAHI, G. (1967) : Two new taxa from Eastern India. *Bull. Bot. Soc. Bengal* **21**(1) : 29-32.
- & JOSEPH, J. (1966) : A botanical tour to Tirap Frontier Division, NEFA (India). *Bull. Bot. Surv. India* **8**(2) : 142-157.